UTILITY PATENT APPLICATION **TRANSMITTAL**

(Only for new nonprovisional applications under 37 CFR 1.53(b))

Attorney Docket No.				
First Inventor	XIAO-AN WANG LMMSE-BASED RAKE RECEIVER WITH CHANNEL TAP ASSIGNMENT			
Title				
Express Mail Label No	ER 356473870 US			

See MPEP o	APPLICATION ELEMENTS chapter 600 concerning utility patent application contents.	ADDRESS TO: Commiss P.O. Box	Patent Application ioner for Patents 1450 O O A VA 22313-1450						
(Submit Application See 37 Application Constitution See 37 Application See 38 Application	ed arrangement set forth below) iptive title of the invention Reference to Related Applications ment Regarding Fed sponsored R & D ence to sequence listing, a table, omputer program listing appendix ground of the Invention Summary of the Invention Description of the Drawings (if filed) ed Description	ii. Paper c. Statements verifyin ACCOMPANYING A	sequence Submission Form (CRF) Sence Listing on: CD-R (2 copies); or g identity of above copies PPLICATION PARTS						
5. Oath or Dec a. ✓ New b. ☐ Cop (for	laration [Total Sheets] laration [Total Sheets] why executed (original or copy) by from a prior application (37 CFR 1.63(d)) continuation/divisional with Box 18 completed) DELETION OF INVENTOR(S) Signed statement attached deleting inventor(s) name in the prior application, see 37 CFR 1.63(d)(2) and 1.33(b). ication Data Sheet. See 37 CFR 1.76	9. Assignment Papers (cover sheet & document(s)) 10. 37 CFR 3.73(b) Statement Power of (when there is an assignee) Attorney 11. English Translation Document (if applicable) 12. Information Disclosure Copies of IDS Statement (IDS)/PTO-1449 Citations 13. Preliminary Amendment 14. Preliminary Amendment 14. Certified Copy of Priority Document(s) (if foreign priority is claimed) 15. Certified Copy of Priority Document(s) (if foreign priority is claimed) 16. Nonpublication Request under 35 U.S.C. 122 (b)(2)(B)(i). Applicant must attach form PTO/SB/35 or its equivalent. 17. Other:							
18. If a CONTINUING APPLICATION, check appropriate box, and supply the requisite information below and in the first sentence of the specification following the title, or in an Application Data Sheet under 37 CFR 1.76: Continuation Divisional Continuation—in-part (CIP) of prior application No.:									
Prior application information: Examiner For CONTINUATION OF DIVISIONAL APPS only; The entire disclosure of the prior application, from which an oath or declaration is supplied under Box 5b, is considered a part of the disclosure of the accompanying continuation or divisional application and is hereby incorporated by reference. The incorporation can only be relied upon when a portion has been inadvertently omitted from the submitted application parts.									
	19. CORRESPON	NDENCE ADDRESS							
Custom	ner Number:	OR 🗹 Corre	espondence address below						
Name	XIAO-AN WANG								
Address 312 ALEXANDER DR.									
City	ALLENTOWN	State PA	Zip Code 18104						
Country	LEPIGH	Telephone (610)395-0696	Fax (610)395-0696						
Name (Print/Type) XIAD-AN WANG Registration No. (Attorney/Agent)									
Signature	1 Dame You	Date 1/8/2004							

This collection of information is required by 37 (ED 1.53(b)). The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop Patent Application, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Complete if Known

Approved for use through 07/31/2006. OMB 0651-0032
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FEE INANSMITTA	L Ar	pplication N	lumber				
for FY 2004	Fil	Filing Date					
Effective 10/01/2003. Patent fees are subject to annual revision.	. Fi	First Named Inventor		XIAO-AN	WANG		
Applicant claims small entity status. See 37 CFR 1.27	E)	xaminer Na	me				
	Ar	Art Unit					
TOTAL AMOUNT OF PAYMENT (\$) 482	At	ttomey Doc	ket No.			<u></u>	
METHOD OF PAYMENT (check all that apply)		FEE CALCULATION (continued)					
Check Credit card Money Other None	3. ADDITIONAL FEES						
Deposit Account:	Large Entity Small Entity						
Deposit	Fee Fe Code (\$		⁼ ee (\$)	Fee Description	1	Fee Paid	
Account Number	1051 13	30 2051	65 Surch	arge - late filing fee or	oath		
Deposit Account	1052	50 2052		arge - late provisional filing fee or sheet			
Name The Director is authorized to: (check all that apply)				inglish specification			
Charge fee(s) indicated below Credit any overpayments	1812 2,5		•	ing a request for ex par			
Charge any additional fee(s) or any underpayment of fee(s)	1804 9	1804		esting publication of SIF iner action	R prior to		
Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.		340° 1805 1	,840* Requ	esting publication of SI	R after		
FEE CALCULATION	1251 1	110 2251	55 Exter	nsion for reply within firs	st month		
1. BASIC FILING FEE	1252 4	120 2252	210 Exter	nsion for reply within se	cond month	<u> </u>	
Large Entity Small Entity	1253 9	2253	475 Exter	nsion for reply within thi	ird month		
Fee Fee Fee Fee Description Fee Paid	1254 1,4	180 2254	740 Exter	nsion for reply within for	urth month		
Code (\$) Code (\$) 1001 770 2001 385 Utility filing fee	1255 2,0	010 2255	1,005 Exter	nsion for reply within fift	th month		
1002 340 2002 170 Design filing fee 385	1401 3	330 2401	165 Notic	e of Appeal			
1003 530 2003 265 Plant filing fee	1402 3	330 2402		a brief in support of ar	n appeal		
1004 770 2004 385 Reissue filing fee	1403 2	290 2403	145 Requ	est for oral hearing	A. A.		
1005 160 2005 80 Provisional filing fee	1451 1,5	510 1451	1,510 Petiti	ion to institute a public use proceeding			
	1452 1	110 2452		on to revive - unavoidable			
1 SUBTOTAL (1) (\$) 385	1453 1,3	330 2453	665 Petiti	on to revive - unintention	onal		
2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE	1501 1,3		665 Utility	issue fee (or reissue)			
Ext <u>ra Claims below Fee Paid</u>	1502 4	180 2502	240 Desi	gn issue fee			
Total Claims 26 -20** = 6 X 9 = 54	1503 6	2503	320 Plan	t issue fee			
Independent Claims 1 x 43 = 43		130 1460	130 Petit	ions to the Commission			
Multiple Dependent =	1807	50 1807	50 Proc	essing fee under 37 CF	FR 1.17(q)		
Large Entity Small Entity		180 1806		nission of Information D			
Fee Fee Fee Fee <u>Fee Description</u> Code (\$) Code (\$)	8021	40 8021	40 Reco	rding each patent assig	inment per		
1202 18 2202 9 Claims in excess of 20		770 2809	prope	erty (times number of po a submission after fina	roperties)		
1201 86 2201 43 Independent claims in excess of 3	1009 /	2009		FR 1.129(a))	ar rejection		
1203 290 2203 145 Multiple dependent claim, if not paid 1204 86 2204 43 ** Reissue independent claims	1810 7	770 2810	385 For exam	ach additional invention to be inned (37 CFR 1.129(b))			
1204 86 2204 43 ** Reissue independent claims over original patent	1801 7	770 2801	385 Req	uest for Continued Exa	mination (RCE)	[]	
1205 18 2205 9 ** Reissue claims in excess of 20 and over original patent	1802 9						
	Other fee	Other fee (specify)					
SUBTOTAL (2) (\$) 97 Office red (specify)							
Similar provided plants in greater, or reacting to the							
SUBMITTED BY	Real	istration No.				21.04	
Name (Print/Type) XIAO-AN WANG		mey/Agent)	1		(610)395		
Signature	~	_		Date	1/8/20	04	

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This collection of information is required by 37 CFR 1.17 and 1.27. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.